PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILIT

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PD030073		FOR FURTHER	FOR FURTHER ACTION . See Form PCT/PEA/416		
International application No. PCT/EP2004/007006		International filing data 29.06.2004	e (day/month/year)	Priority date (day/month/year) 07.07.2003	
Inten H02	national Patent Classification (IPC) o 2M3/155, H02M3/156	or national classification and	i IPC		
Appli THC	lcant DMSON LICENSING S.A. et a	ત્રી.			
1.	and the second second	ransmitted to the applic	ant according to Article	this International Preliminary Examining 36.	
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.				
3.	This report is also accompanied by ANNEXES, comprising:				
	a. 🛛 sent to the applicant an			ts. as follows:	
	sheets of the description, claims and/or drawings which have been amended and are the basis and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section Administrative Instructions).			amended and are the basis of this report (see Rule 70.16 and Section 607 of the	
	☐ sheets which super beyond the disclosu Supplemental Box.	sede earlier sheets, but Ire in the international a	which this Authority co oplication as filed, as in	nsiders contain an amendment that goes dicated in item 4 of Box No. I and the	
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indications relating to the following items:					
	☑ Box No. I Basis of the o	_			
	Box No. II Priority	pinon			
		ment of oninion with re-	rord to manaltar tarrent		
	☐ Box No. IV Lack of unity	of invention	gard to novelty, inventiv	e step and industrial applicability	
	Box No. V Reasoned sta applicability;		(2) with regard to nove	lty, inventive step or industrial ement	
	☐ Box No. VI Certain docur	nents cited			
	Box No. VII Certain defec	ts in the international ap	plication		
	☐ Box No. VIII Certain obser	vations on the internatio	nal application		
Date	of submission of the demand		Date of completion of	this report	
09.05.2005			30.09.2005		
Name and mailing address of the international preliminary examining authority:			Authorized Officer		
	European Patent Office			Bolines Paleman,	
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			Roider, A		
_	Fax: +49 89 2399 - 4465	оооо өрина а	Telephone No. +49 89	2399-2330	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/007006

_	Box No. I	Basis of the report		
1.	With regard to the language , this report is based on the international application in the language in which it filed, unless otherwise indicated under this item.			
	☐ intern☐ public	ort is based on translations from the original language into the following language, the language of a translation furnished for the purposes of: ational search (under Rules 12.3 and 23.1(b)) ation of the international application (under Rule 12.4) ational preliminary examination (under Rules 55.2 and/or 55.3)		
2.	2. With regard to the elements* of the international application, this report is based on (replacement shee have been furnished to the receiving Office in response to an invitation under Article 14 are referred to report as "originally filed" and are not annexed to this report):			
	Description, P	ages		
	1-12	as originally filed		
	Claims, Numb	ers		
	2-9	as originally filed		
	1	received on 09.05.2005 with letter of 04.05.2005		
	Drawings, She	ets		
	1/2, 2/2	as originally filed		
	☐ a sequen	ce listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing		
3.	☐ the de☐ the cla☐ the dra☐ the se	ndments have resulted in the cancellation of: scription, pages tims, Nos. awings, sheets/figs quence listing (specify): ble(s) related to sequence listing (specify):		
4.	☐ This repo had not been Supplemental☐ the de☐ the cla☐ the dra☐ the sea	_		
	* If item	4 applies, some or all of these sheets may be marked "superseded."		



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/007006

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-9

No: Claims

Inventive step (IS)

Yes: Claims

1-9

No: Claims

Industrial applicability (IA)

Yes: Claims

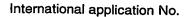
Claims

No:

1-9

2. Citations and explanations (Rule 70.7):

see separate sheet





PCT/EP2004/007006

The closest prior art is a switched mode power supply as shown in Figure of the present application or in the st microelectronic data sheet US2842/3842 (D1). This smps has a transformer whith a primary winding and a secondary winding, a switching transistor in series with the primary winding and a control circuit for controlling an output voltage, the control circuit contains an oscillator which can be set via a terminal of the control circuit.

The present invention by the use of relatively simple means aims to increase the oscillation frequency in order to shorten the start-up period of the smps.

The inventive solution thereto is realized by coupling the oscillator set terminal to a secondary winding.

The oscillator set terminal 4 in Fig. 11 of D1 is not coupled to the secondary winding Nc because it is connected via a capacitor C6 to ground.

This additional circuitry distinguishes the invention from the closest prior art in a novel and inventive manner, Article 33(2)(3) PCT.

The dependent claims 2-9 concern advantageous embodiments of the invention and are as such novel and inventive, Article 33(2)(3) PCT.

Industrial applicability of the present invention in the sense of Article 33(4) PCT is obviously possible.

EP2004/007006 PD030073 Hannover, 04 May 2005

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New Claim 1 (Shall replace present claim 1)

A switched mode power supply having a transformer
 (T1), which has a primary winding (W1) and at least one secondary winding (W2 - W5), having a switching transistor (Q1) in series with the primary winding (W1) and a control circuit (IC1) for controlling an output voltage (U3 - U5), the control circuit (IC1) containing an oscillator (O) which can be set via a terminal (4), characterized in that the terminal (4) is coupled to a secondary winding (W2) for increasing the oscillation frequency of the switch switched mode power supply during operation, with regard to the start-up phase.